Generalized linear mixed models (GLMMs) for predicting mean Bray-Curtis dissimilarity

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model 1** | | **Model 2** | | **Model 3** | | **Model 4** | |
| **Predictors** | **Estimate** | **CI [t-statistic]** | **Estimate** | **CI [t-statistic]** | **Estimate** | **CI [t-statistic]** | **Estimate** | **CI [t-statistic]** |
| Intercept | **0.589 \*\*\*** | **(0.487 - 0.691 ) [11.345]** | **0.833 \*\*\*** | **(0.752 - 0.915 ) [20.113]** | **0.784 \*\*\*** | **(0.744 - 0.825 ) [38.057]** | **0.860 \*\*\*** | **(0.825 - 0.895 ) [48.650]** |
| *M. nasutus* | **-0.014 \*\*** | **(-0.023 - -0.005 ) [-2.933]** | **0.016 \*\*\*** | **(0.008 - 0.025 ) [3.725]** | **0.017 \*\*\*** | **(0.008 - 0.025 ) [3.915]** |  |  |
| *M. guttatus* | **0.017 \*\*\*** | **(0.009 - 0.025 ) [4.191]** | **0.038 \*\*\*** | **(0.030 - 0.047 ) [8.738]** | **0.039 \*\*\*** | **(0.031 - 0.048 ) [8.933]** |  |  |
| Elevation | -0.000 | (-0.000 - 0.000 ) [-1.641] | -0.000 | (-0.000 - 0.000 ) [-1.360] |  |  |  |  |
| ACI | **0.047 \*\*\*** | **(0.034 - 0.060 ) [7.032]** | **-0.076 \*\*\*** | **(-0.081 - -0.071 ) [-29.934]** | **-0.075 \*\*\*** | **(-0.080 - -0.071 ) [-29.898]** | **-0.078 \*\*\*** | **(-0.082 - -0.073 ) [-32.484]** |
| LT | **0.029 \*** | **(0.002 - 0.055 ) [2.139]** | **-0.033 \*\*\*** | **(-0.044 - -0.022 ) [-5.684]** | **-0.033 \*\*\*** | **(-0.044 - -0.022 ) [-5.712]** | **-0.051 \*\*\*** | **(-0.061 - -0.040 ) [-9.508]** |
| LPS | **-0.034 \*\*\*** | **(-0.053 - -0.014 ) [-3.416]** | **-0.017 \*\*** | **(-0.030 - -0.004 ) [-2.647]** | **-0.017 \*\*** | **(-0.029 - -0.004 ) [-2.638]** |  |  |
| LMA | **-0.044 \*\*\*** | **(-0.059 - -0.029 ) [-5.755]** | **0.024 \*\*\*** | **(0.014 - 0.034 ) [4.829]** | **0.024 \*\*\*** | **(0.015 - 0.034 ) [4.877]** | **0.013 \*\*\*** | **(0.006 - 0.020 ) [3.743]** |
| LBI | **-0.012 \*** | **(-0.021 - -0.003 ) [-2.529]** | **-0.010 \*** | **(-0.018 - -0.002 ) [-2.342]** | **-0.010 \*** | **(-0.019 - -0.002 ) [-2.415]** | -0.001 | (-0.009 - 0.008 ) [-0.217] |
| ***Random effects*** |  |  |  |  |  |  |  |  |
| N | 4200 |  | 4200 |  | 4200 |  | 4200 |  |
| logLik | 6729.854 |  | 8154.589 |  | 8163.503 |  | 8330.814 |  |
| *AIC* | -13437.709 |  | -16249.177 |  | -16269.007 |  | -16603.627 |  |
| Significance levels are represented by asterisks [*p* < .05 (\*), *p* < .01 (\*\*), *p* < .001 (\*\*\*), and *p* < .0001 (\*\*\*\*)]. T statistics in brackets. | | | | | | | | |